

TULAYEV + H-1

NAME &amp; BOOK EXPLANATION: SCW/3939

Kompleksnaya sotsialisticheskaya i arkontinatsionnaya proizvodstvo; iz sprava saborov  
 Penseinogo sotsialisticheskogo (Overall Industrial Mechanization and Automation)  
 From Experience of Factories Under the Peasant Council of the National Economy  
 [Peasant] Penza Institute 1959, 259 p. Printed 5/27 inserted.  
 2,000 copies printed.

Ed.: V. Tarkhov; Tech. Ed.: Ye. Vorobieva.

REPORT: This collection of articles is intended for the general reader interested in the mechanization and automation of machine-tool production.

CONTENTS: The efforts of industrial workers of the Peasant Economy to fulfill ahead of time the objectives set forth in the Seven Year Plan are discussed in these 11 articles. The need for complete automation in the production of machine tools and instruments is strongly emphasized. No personalities are mentioned. There are no references.

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AVAILABILITY: Library of Congress

Card 3/5

VK/mmp  
6-11-63

(2)

ISHKOVA, A.G., (Moskva); TULAYKOV, A.N., (Moskva)

Problems on the bending of plates supported by an elastic  
semispace. Inzh. sbor. 23:47-62 '56. (MLRA 9:10)

(Flexure) (Soil mechanics)

TULAYEV, A., kand.tekhn.nauk; YAMPOL'SKAYA, T., kand.tekhn.nauk.

Make wider use of local materials in road construction. Zhil.-kom.  
(MIRA 11:2)  
khoz. 8 no.2:14-15 '58.  
(Road materials)

TULAYEV, I.I.; MASHANOV, A.Zh.

Bed position meter. Sbor. nauch. trud. Kaz GMI no.19:217 '60.  
(MIRA 15:3)

1. Chlen-korrespondent AN Kazakhskoy SSR (for Mashanov).  
(Mining geology) (Measuring instruments)

TULAYEVA, M.I.

Study of the viability of grape pollen. Izv. AN Arm. SSR.  
(MIRA 16:6)  
Biol. nauki 16 no.4:45-55'63.

1. Ukrainskiy nauchno-issledovatel'skiy institut vinogradarstva  
i vinodeliya imeni Tairova, Odessa.  
(GRAPES) (POLLEN)

LIDSKIY, Viktor Borisovich; OVSYANNIKOV, Lev Vasil'yevich; TULAYKOV,  
Anatoliy Nikolayevich; SHABUNIN, Mikhail Ivanovich. Prinimali  
uchastye: ABRAMOV, A.A.; BOCHEK, I.A.; YEVGRAFOV, M.A.; ZIKOV,  
A.A.; KARAEV, V.I.; KARIMOVA, Kh.Kh.; KUDRYAVTSEV, L.D.;  
KUTASOV, A.D.; SHURA-BURA, M.R.; SHCHEGLOV, M.P. SOLODKOV,  
V.A., red.; KRYUCHKOVA, V.N., tekhn.red.

[Problems in elementary mathematics] Zadachi po elementarnoi  
matematike. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1960. 463 p.  
(MIRA 14:1)

(Mathematics--Problems, exercises, etc.)

LIDSKIY, Viktor Borisovich; OVSYANNIKOV, Lev Vasil'yevich; TULAYKOV,  
Anatoliy Nikolayevich; SHABUNIN, Mikhail Ivanovich; BAYEVA,  
A.P., red.; KRYUCHKOVA, V.N., tekhn. red.

[Problems in elementary mathematics] Zadachi po elementarnoi  
matematike. Izd.3., ispr. i dop. Moskva, Fizmatgiz, 1963.  
(MIRA 17:2)  
415 p.

LIDSKIY, Viktor Borisovich; OVSYANNIKOV, Lev Vasil'yevich; TULAYKOV,  
Anatoliy Nikolayevich; SHABUNIN, Mikhail Ivanovich; SOLODKOV,  
V.A., red.; KRYUCHKOVA, V.N., tekhn. red.

[Problems in elementary mathematics] Zadachi po elementarnoi  
matematike. Izd.2., stereotipnoe. Moskva, Gos. izd-vo  
fiziko-matem. lit-ry, 1962. 463 p. (MIRA 15:3)  
(Mathematics--Problems, exercises, etc.)

"APPROVED FOR RELEASE: 03/14/2001

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TULAYKOV, A. N., and ISHKOVA, A. G.

"Some Problems on the Flexure of Plates Lying on an Elastic Semispace," by A. G. Ishkova and A. N. Tulaykov, Moscow, Inzhenernyy Sbornik, Vol 23, 1956, pp 47-62, submitted for publication 12 Jun 54

This work studies problems of the flexure of an infinite strip under the conditions of a plane problem and a circular plate with different loadings, lying on ground assumed to be an elastic, isotropic, homogeneous semispace. Nonsymmetric and concentrated loads are not considered. The problem in question was boiled down to the determination of the reaction of the ground to the plate with the plate being in equilibrium under the action of external loads and reactive pressures and with the plate being in solid contact with the ground at every point.

Jun 1239

TULAYKOV, A. N.

Zur Kompaktheit in Raum  $l^p$  fur  $p=1$ , Nachr. Gott. (1933), 187-170.

SO: Mathematics in the USSR, 1917-1947  
edited by Jurosh, A. G.,  
Markushevich, A. I.,  
Rashevskiy, P. K.  
Moscow-Leningrad, 1948

TULAYKOV, Nikolay Maksimovich, akademik (1875-1937); SHUL'TS, D.O.,  
red.; SAYTANIDI, L.D., tekhn. red.

[For row crop cultivation and against grassland farming] Za  
propashnye kul'tury protiv travopol'ia; izbrannye stat'i.  
Moskva, Izd-vo MSKh RSFSR, 1962. 159 p. (MIRA 15:9)  
(Tillage)

VOLOVCHENKO, I.; METELEV, V.; BANNIKOV, N.; LAPIDUS, M.; MOROZOV, P.;  
KUL'TSOV, M.; BATSANOV, N.; PRYANISHNIKOV, D.N., akademik;  
TULAYKOV, N.M., akademik; BEREZIN, I.A., red.; AVDEYEVA,  
V.A., tekhn. red.

[Strong crops] Moguchie kul'tury. Moskva, Sovetskaya Rossiya,  
1962. 222 p. (Truzhenikam sela - ob intensivnoi sisteme  
zemledeliia, no.2) (MIRA 16:9)  
(Field crops)

TULAIKOV Nikolay Maksimovich (1875-1938); BLOKHINA, V.V., red.;  
TVERDOVSKIY, V.P., red.; SOKOLOVA, N.N., tekhn. red.

[Selected works; criticism of grassland farming] Izbrannye  
proizvedeniia; kritika travopol'noi sistemy zemledeliia.  
Moskva, Sel'khozizdat, 1963. . 311 p. (MIRA 16:8)  
(Tulaikov, Nikolai Maksimovich, 1875-1938)  
(Rotation of crops) (Soil science)

TULAYKOV, V. N.

BILYUMENTAL', R.M.; GIRICH, A.I.; OONCHARIK, A.K.; GUSEVA, T.P.; ZHITKOVA, L.A.; IOFFE, A.M.; KULEGIN, P.D.; LEVINA, L.I.; OSHKIN, P.A.; PAPROTSKIY, T.V.; RIYAKHNOV, A.N.; SAMSONOV, N.A.; TULAYKOV, V.N.; USTINOV, I.M.; FAIN, B.P.; SHIFRIN, D.L.; KOLOTILOV, Vasiliy Ivanovich, red.; SVIATITSKAYA, K.P., vedushchiy red.; TROFIMOV, A.V., tekhn.red.

[Equipment for the petroleum industry] Neftianoe oborudovanie.  
Vol.5 [Petroleum valves and fittings] Nefianaja armatura. Moskva,  
Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoj lit-ry. 1958.  
(MIRA 12:1)  
247 p.  
(Petroleum industry--Equipment and supplies)

ACC NRI AP6036989

(A,N)

SOURCE CODE: UR/0181/66/008/011/3377/3379

AUTHOR: Tulaykova, A. A.; Monosov, Ya. A.

ORG: Institute of Radio Engineering and Electronics, AN SSSR, Moscow (Institut radio-tehniki i elektroniki AN SSSR)

TITLE: Hysteresis of oscillations that accompany nonlinear ferromagnetic resonance

SOURCE: Fizika tverdogo tela, v. 8, no. 11, 1966, 3377-3379

TOPIC TAGS: magnetic hysteresis, ferromagnetic resonance, parametric resonance, yttrium iron garnet, nonlinear effect, magnetization, microwave oscillation

ABSTRACT: The authors discuss the hysteresis of the high frequency oscillations ( $\sim 1$  MHz) that accompany nonlinear processes in single-crystal yttrium garnet at a frequency equal to half the pump frequency. The hysteresis of these oscillations which are observed at pump powers greatly exceeding threshold was investigated under continuous pump operation at a frequency of 9350 MHz. The sample was placed in a homogeneous magnetic microwave field transverse to the magnetizing field. The tested yttrium garnet single crystal was irregular in shape, close to that of a plate measuring  $2.8 \times 1.7 \times 0.7$  mm. The high frequency oscillations were revealed by the reflected microwave power. The amplitude of the high frequency oscillations, plotted against the magnetizing field, exhibits a hysteresis on the low-frequency side, and a region of width of approximately 150 Oe. The hysteresis region goes through a maximum with increasing pump power, and then vanishes. Hysteresis is revealed also

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ACC NR: AP6036989

in the plot of the threshold pump level against the magnetizing field. No explanation can be offered as yet for this hysteresis, which is shown to be insensitive to changes in the plate dimensions. This hysteresis is different from the hysteresis of the nonlinear spin-wave resonance, whose width in yttrium garnets amounts to several tenths of an oersted, whereas the width of the hysteresis described here reaches 200 Oe. The authors thank G. F. Filat'yev for help with the experiment.  
Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 06May66

Card 2/2

L 21363-66 EMT(1)/EMT(n)/T/EMP(+) ID  
ACC NR: AP6008750

SOURCE CODE: UR/0386/66/003/006/0250/0252

AUTHOR: Monosov, YA. A.; Surin, V. V.; Tulaykova, A. A.

ORG: Institute of Radio Engineering and Electronics, Academy of Sciences, SSSR (Institut radiotekhniki i elektroniki Akademii nauk SSSR)

TITLE: Investigation of high-frequency oscillations in single-crystal magnesium man-ganese ferrite

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniya, v. 3, no. 6, 1966, 250-252

TOPIC TAGS: ferrite, magnesium compound, nonlinear effect, single crystal, ferromagnetic resonance, spin wave spectrum

ABSTRACT: To show that the oscillations accompanying nonlinear ferromagnetic-resonance processes in yttrium iron garnets (YIG), previously reported by one of the authors (Monosov, with A. V. Vasbkovskiy, IEE Conf. Publ. no. 13, 63, 1965), should be observed in all ferrites, the authors have experimentally investigated the high-frequency oscillations in single-crystal MgMn ferrite at 9300 Mc, with the microwave field transversely polarized and the constant magnetic field ranging from 700 to 3000 oe. The sample was placed in a resonator, and was close in shape to a plate 0.5 mm thick. The high-frequency oscillations were detected with a spectrum analyzer using the reflected microwave power. The tests show that: (1) The oscillations have a threshold, at which the pump power is double that of YIG. The dependence of the amplitude on the

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L 21568-66  
ACC NR: AP6008750

constant magnetic field is reminiscent of the dependence of the additional-absorption curve. The observation of the oscillations can be used to determine certain characteristics of the nonlinear resonance, such as the width of the spin-wave resonance curve. (2) The amplitude of the oscillations saturates with increasing pump power, and its value is 20--30 dB lower than in YIG. (3) The oscillation spectrum extends over a certain frequency region. As the pump threshold increases the frequency region shifts from 0.5--0.9 to 1.8--2.2 Mc. The threshold pump power increases with increasing sample dimensions, owing to the deterioration of the thermal conditions in the sample. The pump threshold for different samples may therefore differ from those obtained by a factor 1.5--2. It is also observed that the intensity of the hf oscillations depends markedly on the sample orientation. Orig. art. has: 3 figures.

SUB CODE: 20/ SUBM DATE: 03Feb66/ ORIG REF: 001/ OTH REF: 002

Card 2/2 JV

TULAIKOVA, K.P.

The separation of calcium carbonate crystals by bacteria of the rhizo-sphere. Agrobiologiya '52, No.4, 43-51.  
(MLRA 5:8)  
(CA 47 no.13±6589 '53)

TULAYKOVA, K.P.

Root microflora of hemp. Zhur. ob. biol. 15 no.4:288-302 J1-Ag '54.  
(MYCORHIZA) (HEMP) (MLRA 7:9)

TULAYKOVA, K. P.

TULAYKOVA, K. P. -- "Directed Regulation of the Composition of the Microflora of Hemp Roots in Order to Improve Root Nutrition and Increase the Harvest of This Crop." Min Higher Education USSR. Leningrad Agricultural Inst. Leningrad, 1955. (Dissertation for the Degree of Doctor of Agricultural Sciences.)

SO: Knizhnaya letopis', No. 4, Moscow, 1956

Name: TULAYKOVA, Klavdiya Petrovna

Dissertation: Directed regulation of the composition of microflora of hemp roots for the purpose of improving fodder diet and increasing the yield of this crop

Degree: Doc Agr Sci

Affiliation: Ul'yanov Agr Inst

Defense Date, Place: 22 May 56, Council of Leningrad Agr Inst

Certification Date: 5 Oct 57

Source: BMVO 23/57

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TULAYKOVA, K.P.  
TULAYKOVA, K.P., doktor sel'skokhozyaystvennykh nauk.

Role of bacteria of the radiobacter type in root nutrition of plants,  
Agrobiologiya no.1:93-101 Ja-F '58. (MIRA 11:2)

1. Ul'yanovskiy sel'skokhozyaystvennyy institut.  
(Rhizosphere microbiology) (Plants--Nutrition) (Hemp)

TULAYKOVA, K.P., prof.

Microbiological processes in soil under healthy and chlorosis-infected apple trees. Agrobiologiya no.2:246-253 Mr-Ap '62.  
(MIRA 15:4)

1. Ul'novskiy sel'skokhozyaystvennykh institut.  
(Rhizosphere microbiology) (Apple--Diseases and pests)

17(1)  
AUTHOR:

Tulbayev, P.

sov/20-123-2-48/50

TITLE:

On the Factors Causing the Rumination in Ontogenesis (O  
puskovykh faktorakh zhvachki v ontogeneze)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 2, pp 377-380  
(USSR)

ABSTRACT:

The author proved in earlier papers (Refs 4,5) that in goats the characteristics of mechanical reception of the multilocular stomach changes in various stages of the early ontogenesis in strict correlation to the alteration of food stimuli. The change of nutrition (from milk type to compact fodder) leads to a gradual and at the same time differential transformation of all parts of the stomach. It is, however, possible to maintain the mechanical reception with a high excitability, which is inadequate to the age of the animal, by feeding milk for 40-50 days (from the day of birth). Following a proposal by E. Sh. Ayrapet'yants the author studied the relation between the activation of the rumination and the type of fodder. At first the process in normal animals is recalled (calves, cows) (Refs 2,3). For the experiments 13 kids were used, the diet of 5 of which was changed to concentrated and compact fodder at an age of

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On the Factors Causing the Rumination in Ontogenesis SOV/20-123-2-48/50

12-18 days. The other 8 were fed with milk for 2-3 months from the day of birth (with vitamins, mineral substances etc.). The experimental results are shown in figures 1-4. In the case of the 5 kids (compact food) rumination began to assume a rhythmical and periodical character (as in the case of adult animals) 5-8 days after the change of fodder (weaning) (Fig 1). In the 8 animals fed with milk only, eructation and short lasting masticatory movements were only seldom observed (Fig 2). On account of his experiments the author arrives at the conclusion that the reflex of complexes which is called "rumination" is formed at a certain age and is about to become evident on the occasion of changing the animal to compact food. If the animal, however, is not weaned during the early ontogenesis but is fed further on in a way that does not require repeated systematical chewing, the innate mechanism of rumination either does not come into effect at all, or only partially. The disturbance of the eructation reflex owing to the lacking permanent mechanical stimulation of the walls of the antestomach may be considered one of the reasons why the balanced reactions of rumination do not take place. This was proved by the author by means of experiments with a rubber bulb insinu-

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On the Factors Causing the Rummation in Ontogenesis SOV/20-123-2-48/50

ated into the rumen, the distention of which caused rumination in the case of the kids of the first group (compact food). In the case of the kids fed with milk this method did not bear any results. Thus, rumination as an innate reflex occurs in ontogenesis only in the case of interaction with a certain type of feeding. One of the factors causing rumination is the chain of stimuli acting permanently upon the interceptors of the antestomachs. There are 4 figures and 6 references, 5 of which are Soviet.

ASSOCIATION: Laboratoriya interotseptivnykh uslovnykh refleksov (Laboratory for Reflexes Dependent Upon Interceptors) Nauchno-opytnaya stantsiya Instituta fiziologii im. I. P. Pavlova Akademii nauk SSSR (Scientific Experimental Station of the Institute of Physiology imeni I. P. Pavlov of the Academy of Sciences, USSR)

PRESENTED: July 3, 1958, by K. M. Bykov, Academician

Card 3/4

TULBAYEV, Peysen, Candidate of Biol Sci (diss) -- "On the reflex activity of the multiple stomach of goats in ontogeny and in connection with the type of nutrition". Leningrad, 1959. 16 pp (Acad Sci USSR, Inst of Physiology im I. P. Pavlov, Laboratory of Interoceptive Conditioned Reflexes), 150 copies (KL, No 20, 1959, 111)

TULBAYEV, Peysen

~~Relation of the type of feeding to interoceptive reflex properties in goats in ontogenesis.~~ Fiziol. zhur. 45 no. 5:549-555 My '59.  
(MIRA 12:7)

1. Laboratoriya interotseptivnykh uslovnykh refleksov Instituta fiziologii im. I.P. Pavlova AN SSSR, Leningrad.

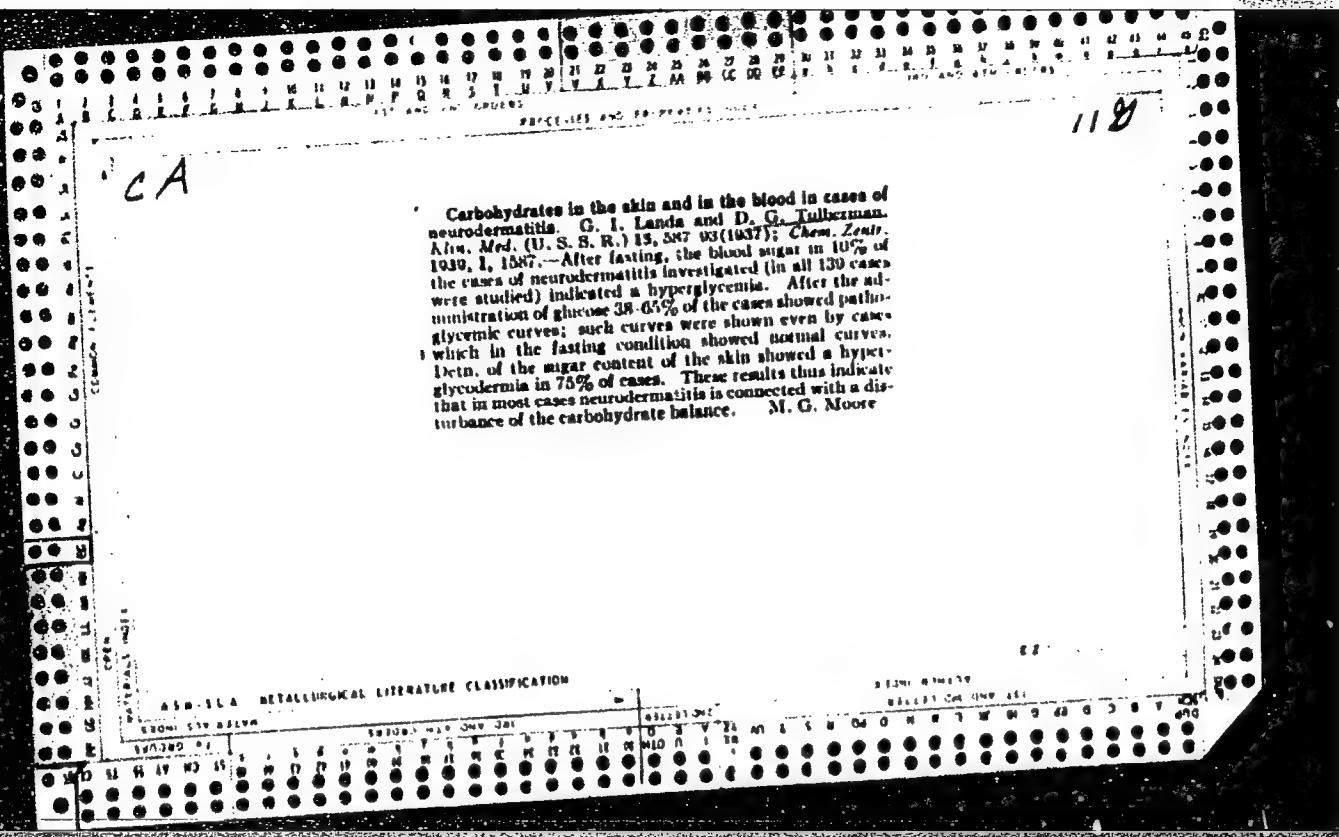
(GASTROINTESTINAL SYSTEM, physiol.

eff. of type of fodder on interoceptive gastrointestinal reflexes in young goats (Rus))

(FOOD, eff.

on gastrointestinal interoceptive reactions in young goats (Rus))

**Carbohydrates in the skin and in the blood in cases of neurodermatitis.** G. I. Landa and D. G. Tullerman. *Klin. Med. (U. S. S. R.)* 15, 387 (1937). *J. Chem. Ztschr.* 1939, I, 1587.—After fasting, the blood sugar in 10% of the cases of neurodermatitis investigated (in all 130 cases were studied) indicated a hyperglycemia. After the administration of glucose 38-65% of the cases showed pathognomonic curves; such curves were shown even by case which in the fasting condition showed normal curves. Beta, of the sugar content of the skin showed a hyperglycidermia in 75% of cases. These results thus indicate that in most cases neurodermatitis is connected with a disturbance of the carbohydrate balance. M. G. Moore



NOWICKI, Stanislaw; TUKALO, Konstanty

Vascularization of the muscles of the extremities in arterial  
diseases. Poznan, tow. przyjaciol nauk, wydz. lek. 18 no. 4:5-24 '60.  
(VASCULAR DISEASES PERIPHERAL)  
(LEG blood supply)

TUKALLO, Konstanty; SPOENY, Bogdan

Measurement of surface temperature immediately after lumbar  
sympathectomy and partial adrenalectomy in arteritis obliterans.  
Poznan.tow.przyjaciol nauk,wydz.lek. 18 no.4:105-110 '60.  
(ARTERITIS surg.) .  
(SYMPATHECTOMY)  
(ADRENALECTOMY)  
(BODY TEMPERATURE)

TULBAYEV, Peysen

Conditioned vestibulomotor reflexes in normal rabbits and those  
with the labyrinth removed. Trudy Inst. fiziolog. 8:207-213 '59.  
(MIRA 13:5)

1. Laboratoriya interotseptivnykh ualovnykh refleksov (zavedyuu-  
shchiy - E.Sh. Ayrapet'yants) Instituta fiziologii im. I.P.  
Pavlova AN SSSR.

(CONDITIONED RESPONSE)

AYRAPET'YANTS, Ervand Shamirovich; GRACHEV, Iosif Ivanovich;  
TULBAYEV, Peysen Tulbayevich; VASIL'YEVA, Z.A., red.  
izd-va; KRUGLIKOV, N.A., tekhn. red.

[New studies on the physiology of farm animals] Novye is-  
sledovaniia po fiziologii sel'skokhoziaistvennykh zhivot-  
nykh. Moskva, Izd-vo AN SSSR, 1963. 94 p. (MIRA 17:1)

(Conditioned response) (Veterinary physiology)

BELOV, Ye.V.; DZHANGIR'YANTS, D.A.; TUL'BAYEVA, Z.N.

Results of studying the bitumen content and underground waters in  
Mesozoic and Paleozoic sediments in the southern part of the Emba  
region. Trudy Inst. geol. i geofiz. AN Kazakh. SSR 1:82-90 '63.  
(MIRA 16:7)

(Emba region--Water, Underground)  
(Emba region--Bitumen--Geology)

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TULBURG, H.

PL. 112 21

VELCOVICI, D., MD; STIMBERG, C., MD; TULBURG, H., MD;  
DR. BOCU, GM., MD.

State Hospital No 12, Bucharest (Spitalul de Stat Nr. 12,  
Bucuresti) - (for all)

Bucharest, Vista Medicala, No 9, 1 May 63, pp 611-616

"Observations on a Case of Hypertrophic Stenosis of the Pylorus  
in a Premature Infant."  
(Paper given at the meeting held on 27 September 1961  
of the Pediatrics Section, Bucharest Branch, U.S.S.R.)

Tulcea, C. T. Ionescu

"Integrarea Functiilor De Multime", by C. T. Ionescu Tulcea.  
(presented at the 9 November 1951 session of the Institute  
of Mathematics). BULETIN STIINTIFIC, Sectiunea De Stiinte  
Matematice Si Fizice, Tom. IV, nr. 1, 1952.

Tulcea, C. T. Ionescu

"Functii De Multime Si Integralele Lor", by C. T. Ionescu  
Tulcea. (Mathematics). STUDII SI CERCETARI MATEMATICE,  
Tomul V, nr. 1-2, 1954.

Tulcea, C. T. Ionescu.

"Integrale Aditive", by C. T. Ionescu Tulcea. (presented at  
the 11 December 1953 session to academician S. Stoilov).  
COMUNICARILE ACADEMIEI R. P. R., Tomul IV, nr. 9-10, 1954.

MIRER, G.V., inzh.; TUL'CHIN, I.K., inzh.

Determination of the voltage decrease in starting the short-circuited electric motor of an elevator. Prom. energ. 20  
no.1:38-41 Ja '65. (MIRA 18:4)

TUL'CHIN, J.K., inzh.

More on the pamphlet "Installation of replaceable concealed electrical wiring in 1-46/A series large-panel apartment houses." Svetotekhnika 10 no.3:30 Mr '64. (MIRA 17:3)

MIRSK, G.W., inzh.; TUL'CHIN, I.K., inzh.

Calculation of four-wire lighting networks with gas discharge  
lamps. Prom. energ. 19 no. 6830-32 Je<sup>64</sup> (MJRA 1727)

TUL'CHINSKAYA, A.V.

Antibiotic substances in plant seeds. Nauch.dokl.vys.shkoly; biol.  
nauki no.2:162-166 '60. (MIRA 13:4)

1. Rekomendovana kafedroy mikrobiologii Odesskogo gosudarstvennogo  
universiteta im. I.I. Mechnikova.  
(PHYTONCIDES) (SEEDS)

5(2), 5(3)

AUTHORS: Tolmachev, V. N., Tul'chinskaya, A. Ya. SOV/75-14-3-2/29

TITLE: Spectrophotometric Investigation of Reactions Which Are Important in Analytical Chemistry (Spektrofotometricheskoye issledovaniye reaktsiy, imeyushchikh znacheniye v analiticheskoy khimii). Communication 2. Complex Compounds Formed by Copper Ions With Sodium Salt of 2-Nitroso-1-Naphthol-4-Sulfo Acid (Soobshcheniye 2. Kompleksnyye soyedineniya, obrazuyemyye ionami medi s natriyevoy sol'yu 2-nitrozo-1-naftol-4-sul'fokisloty)

PERIODICAL: Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 3,  
pp 272-277 (USSR)ABSTRACT: The light absorption curves of solutions containing Cu<sup>2+</sup>-ions and the compounds mentioned in the title, in the following termed nitroso salt, were taken at different pH. According to the method devised by I. I. Ostromyslenskiy (Ref 14) and P. Job (Ref 15) the stoichiometric coefficients for the reaction copper ion - nitroso salt were determined and two copper complex ions were found to be formed: CuR<sup>+</sup> and CuR<sub>3</sub><sup>-</sup>.

Card 1/2 The molar extinction coefficients and the instability constants

Spectrophotometric Investigation of Reactions Which SOV/75-14-3-2/29  
Are Important in Analytical Chemistry. Communication 2.  
Complex Compounds Formed by Copper Ions With Sodium Salt  
of 2-Nitroso-1-Naphthol-4-Sulfo Acid

of these complexes were determined. The copper complexes investigated proved to be more stable than the corresponding nickel compounds. The optical density and the equilibrium constant are given in tables 1 and 2 for 510, 520, 530, 540  $\mu$ . Table 3 indicates the equilibrium constants in dependence on pH. The high extinction coefficients of  $NiR_3^-$  and  $CuR_3^-$ , and the difference of their absorption curves are sufficient for a spectrophotometric determination of copper and nickel in common solution. The authors express their gratitude to N. P. Komar' for having supervised the investigation. There are 3 figures, 3 tables, and 22 references, 12 of which are Soviet.

ASSOCIATION: Khar'kovskiy gosudarstvennyy universitet im. A. M. Gor'kogo  
(Khar'kov State University imeni A. M. Gor'kiy)  
SUBMITTED: December 18, 1955  
Card 2/2

COUNTRY : USSR  
CATEGORY : Microbiology  
ARE. JOUR. : Ref Zhur-Biologiya, No.4, 1959, No. 14931  
AUTHOR : Tul'chinskaya, Gromyko, Fedotov  
INST.  
TITLE : Differentiation of Immuno-Diagnostic Reactions  
in Vaccinated and Brucella-Stricken Animals.  
  
ORIG. PUE. : Sots. tvoricheskoe, 1957, No.12, 52-55  
  
ABSTRACT : When large cattle were immunized against brucellosis, the agglutinin titer rose, and often retention of the titer masked recognition of really sick animals. With the immunization 425 young heifers with a vaccine of strain 19 it was found that the CFR was positive in 59, and the AP was positive in 412 animals. The highest number of CFR was found in the first months following immunization, and then they became negative. The author suggests

CARD: 1/2

VARLAMOV, M.L.; BELENICHYUS, K.K.; MANAKIN, G.A.; Prinimali uchastiye:  
POLUKHINA, T.I.; KHODAKOVSKIY, V.V.; GORCHEVA, L.V.;  
TUL'CHINSKAYA, K.V.; TSITKO, A.S.; SHELAMOV, V.A.

Removal of phthalic anhydride from the waste gases in the production  
of glyptal and pentaphthalic varnishes. Nauch. zap. Od. politekh.  
Inst. 41:10-21 '62. (MIRA 17:4)

BEREZOVSKIY, V.M.; TUL'CHINSKAYA, L.S.; POLYAKOVA, N.A.

Alloxazine and isoalloxazine series. Part 13: Synthesis of  
7 aminoalloxazine, 7-amino(deme hyl)riboflavine and their  
derivatives. Zhur. ob. khim. 35 no.4:673-677 Ap '65.

(MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001757410013-2

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001757410013-2"

TUL'CHINSKIY.

"Put worker inventiveness to practical use in factory workshops." Leg.prom.  
7 no.10:3 of cover. O '47. (MLRA 6:11)  
(Industrial management)

TUL'CHINSKIY, B.G.

137-58-2-2899

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 99 (USSR)

AUTHORS: Tul'chinskiy, B.G., Polezhayev, V.M., Rozenberg, L.B.

TITLE: The Force Exerted in Heading Bolts in the Manufacture of Bolts  
on Cold-upsetting Machines (Eksperimental'noye issledovaniye  
sily vysadki golovki bolta pri izgotovlenii yego na kholodnovy-  
sadochnom avtomate)

PERIODICAL: Nauchn. zap. Dnepropetr. un-t, 1956, Vol 45, pp 177-181

ABSTRACT: An account is given of methods derived and results obtained from an experimental investigation made under production conditions at the Dnepropetrovsk Metal-goods Plant. The investigation consisted in recording on a loop oscillograph the force exerted by the first and second upsetting passes, the operation of the forming punch, and the readings of a timing device - with the aid of wire strain gages pasted to the surface of the forming punch. It was found that the maximum force exerted by the first and second upsetting pass differed from the maximum static-compression force by anywhere up to 5 percent. Attention is drawn to the great disparity in the magnitude of the force as computed with the formula given in the book "Vysadochnyye i otreznyye pressy-avtomaty"

Card 1/2

137-58-2-2899

The Force Exerted in Heading Bolts in the Manufacture of Bolts (cont.)

(Automatic Upsetting and Shearing Presses) by G.A. Navrotskiy and its magnitude as determined in the present investigation.

G.F.

1. Bolts—Manufacture    2. Forge presses—Performance—Test results

Card 2/2

PA 34/49T68

TUL'CHINSKIY, E. I.

USSR/Medicine - Public Health,  
Education  
Medicine - Public Health, Training

Sep/Oct 48

"An Experiment in the Work of the School of Sanita-  
tion Education in a Large City," E. I. Tul'chin-  
skiy, Odessa, 3 3/4 pp

"Gov Zdravookhran" No 5

Describes work of the Odessa School, 1946 - 1947.

FDB

34/49T68

BELOV, K.A.; VOLKOVA, O.B.; MAKSIMOVA, M.I.; OGLOBLIN, N.D.; LUK'YACHENKO,  
V.N.; TUL'CHINSKAYA, A.Ya.

Effect of the chemical composition of the reagents, used for coal  
flotation, on their activity. Koks i khim. no.8:8-12 '62.

(MIA 17:2)

1. Khar'kovskiy politekhnicheskiy institut (for Belov, Volkova,  
Maksimova). 2. Khar'kovskiy gornyy institut (for Ogloblin, Luk'-  
yachenko, Tul'chinskaya).

L 6994-56 EWT(1)/EVA(h)

ACC NR: AP5026619

SOURCE CODE: UR/0286/65/000/017/0095/0095

INVENTOR: Khil'chevskiy, G. L.; Voytsekhov, Yu. R.; Tul'chinskaya, K. V.; Lazarev, N. V.; Vodolagin, V. Yu.

58  
B

ORG: none

TITLE: An ultrasonic pickup.<sup>10</sup> Class 42, No. 174452 [announced by Experimental Research and Design Office of the Black Sea Council of National Economy (Eksperimental'no-issledovatel'skoye i konstruktorskoye byuro Chernomorskogo Sovnarkhoza)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 95

TOPIC TAGS: piezoelectric transducer, ultrasonic inspection, waveguide

ABSTRACT: This Inventor's Certificate introduces an ultrasonic pickup designed for studying gaseous media. The device consists of a housing containing a piezoelectric transducer and a waveguide. Interference from the walls of the vessel being monitored is absorbed by making the housing in the form of a cylindrical labyrinth with rifling.

SUB CODE: EC,IE/ SUBM DATE: 05Oct64/ ORIG REF: 000/ OTH REF: 000

Card 1/2

UDC: 534.232-8

09011772

L 6994-66

ACC NR: AP5026819

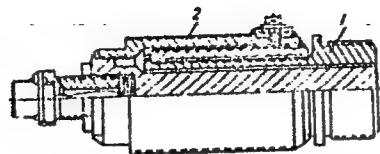
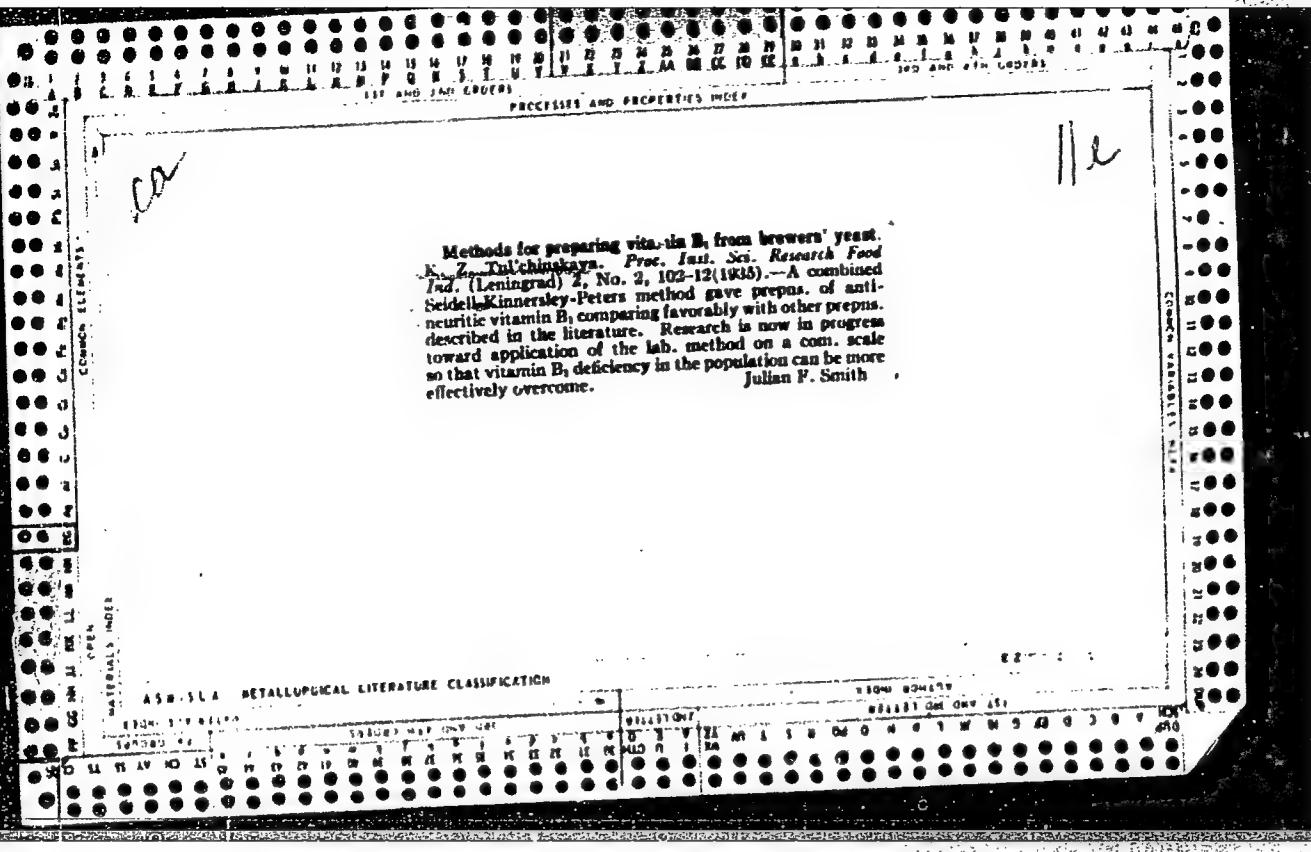
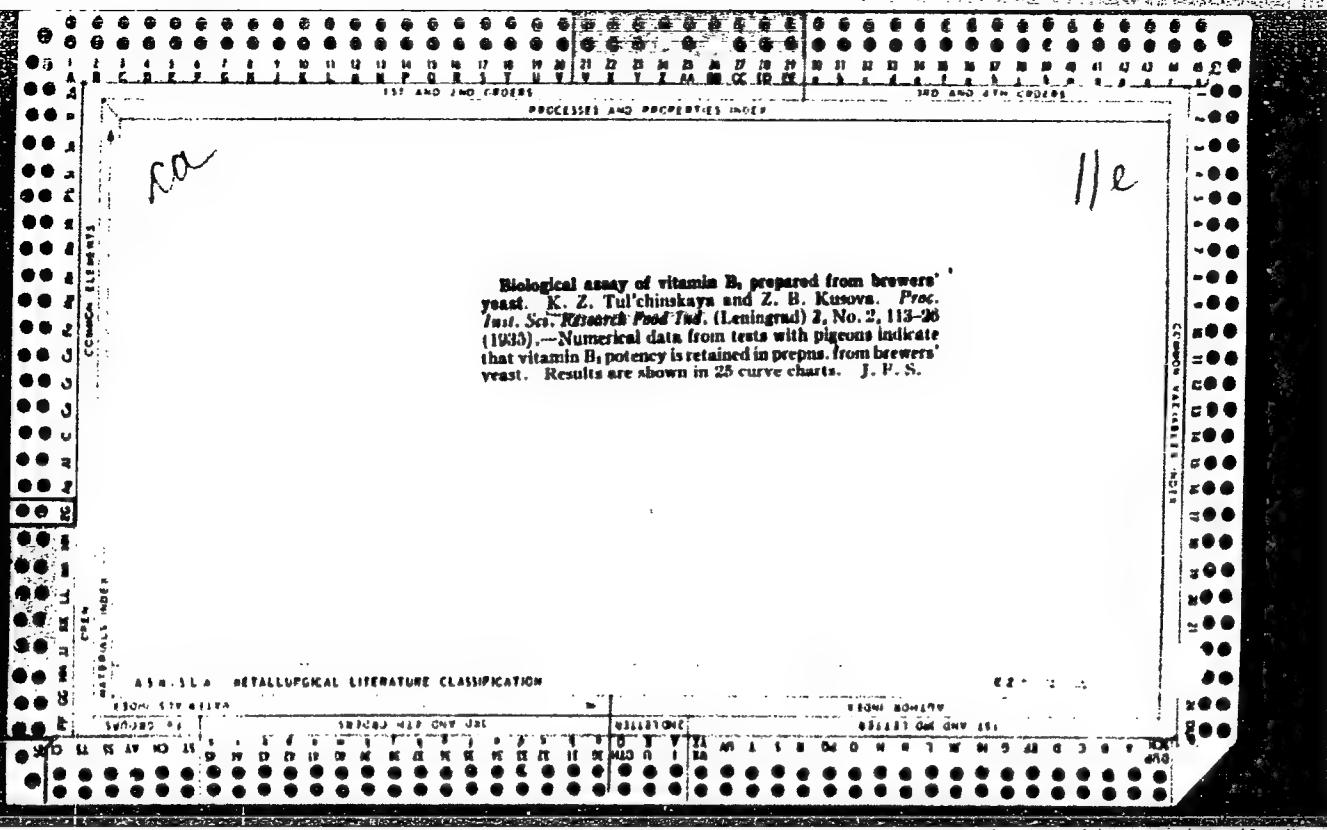
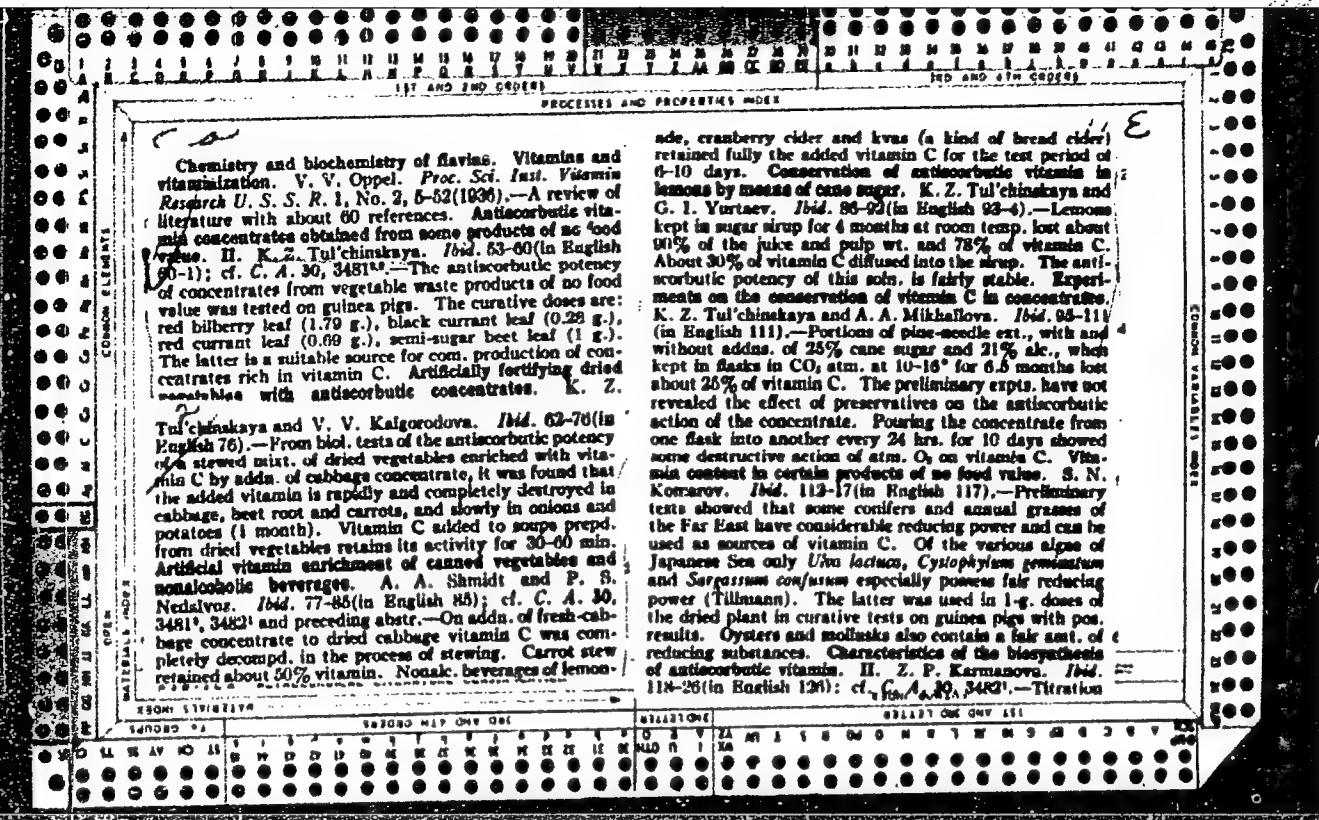


Fig. 1. 1 - housing; 2 - rifling.

Card 2/2 *nts*

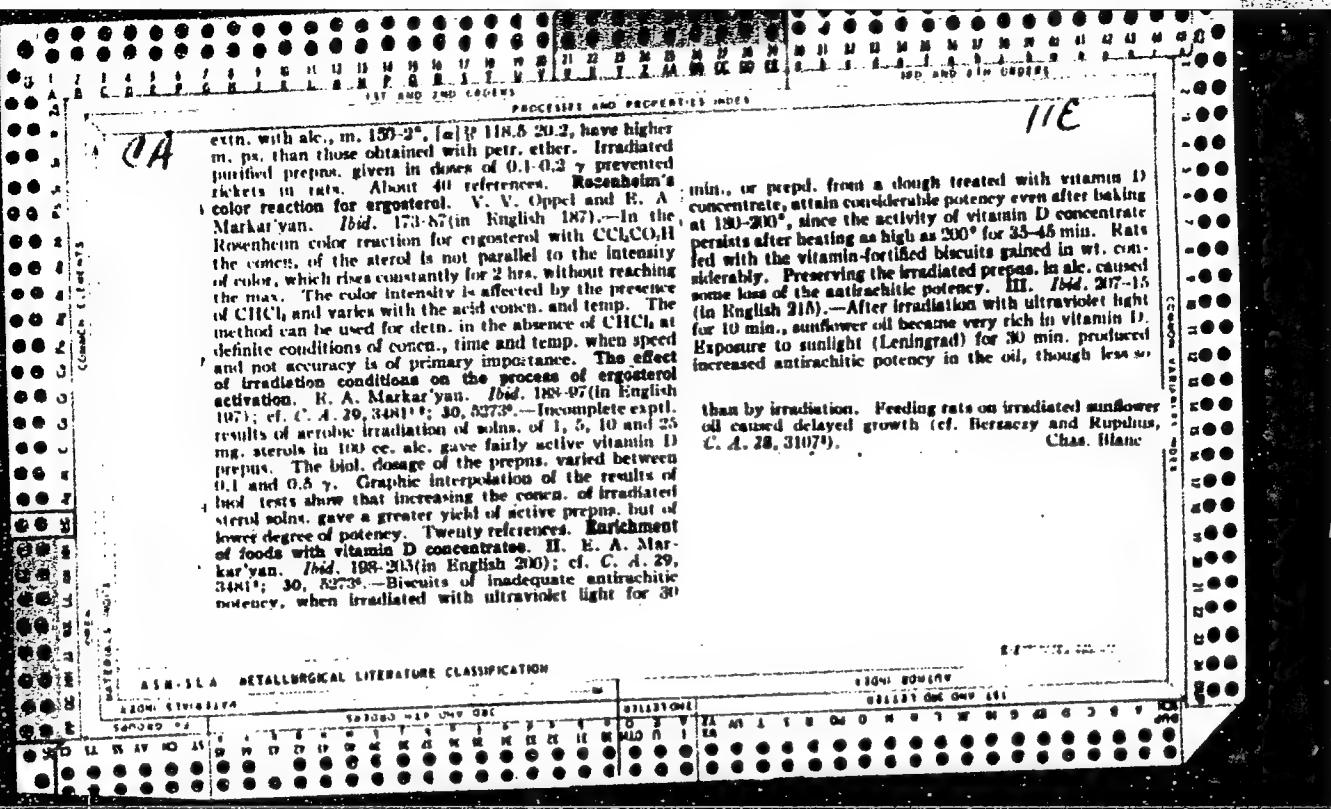


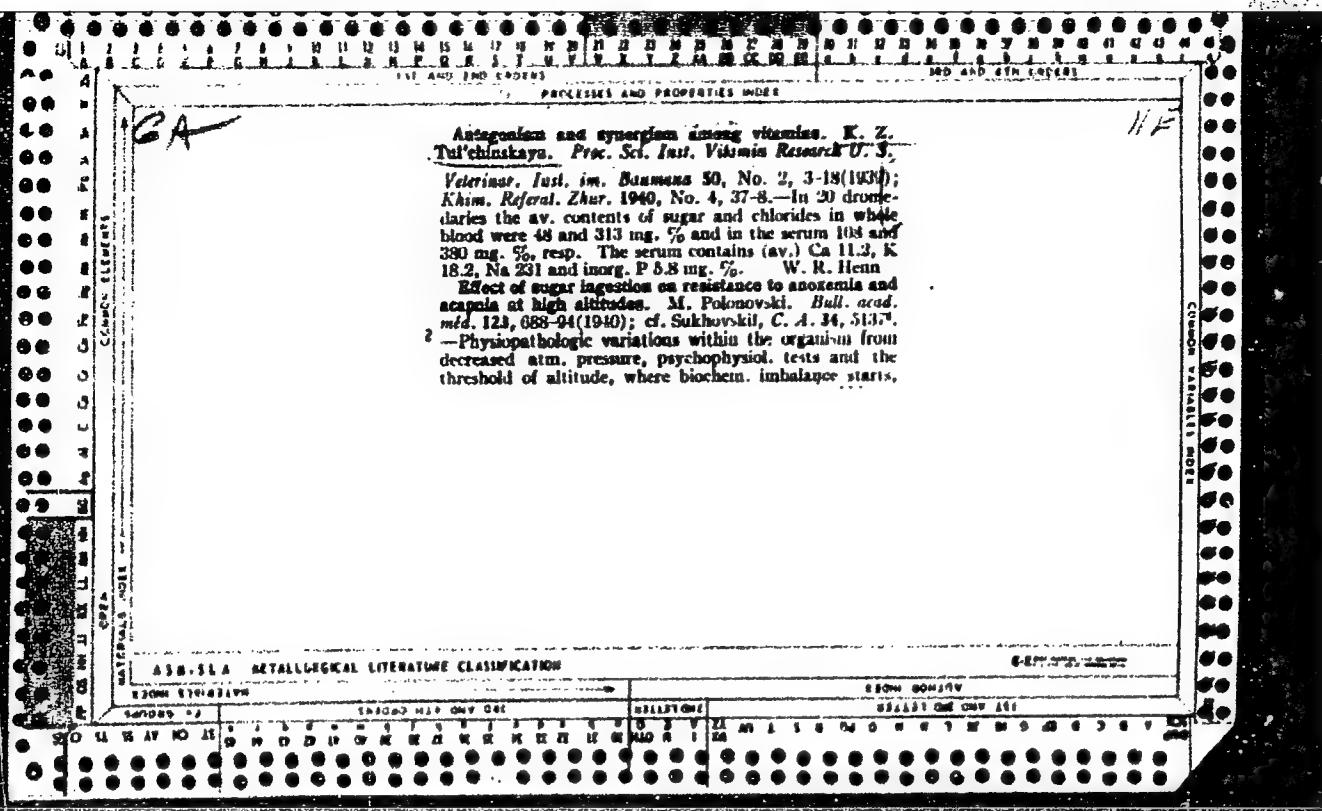


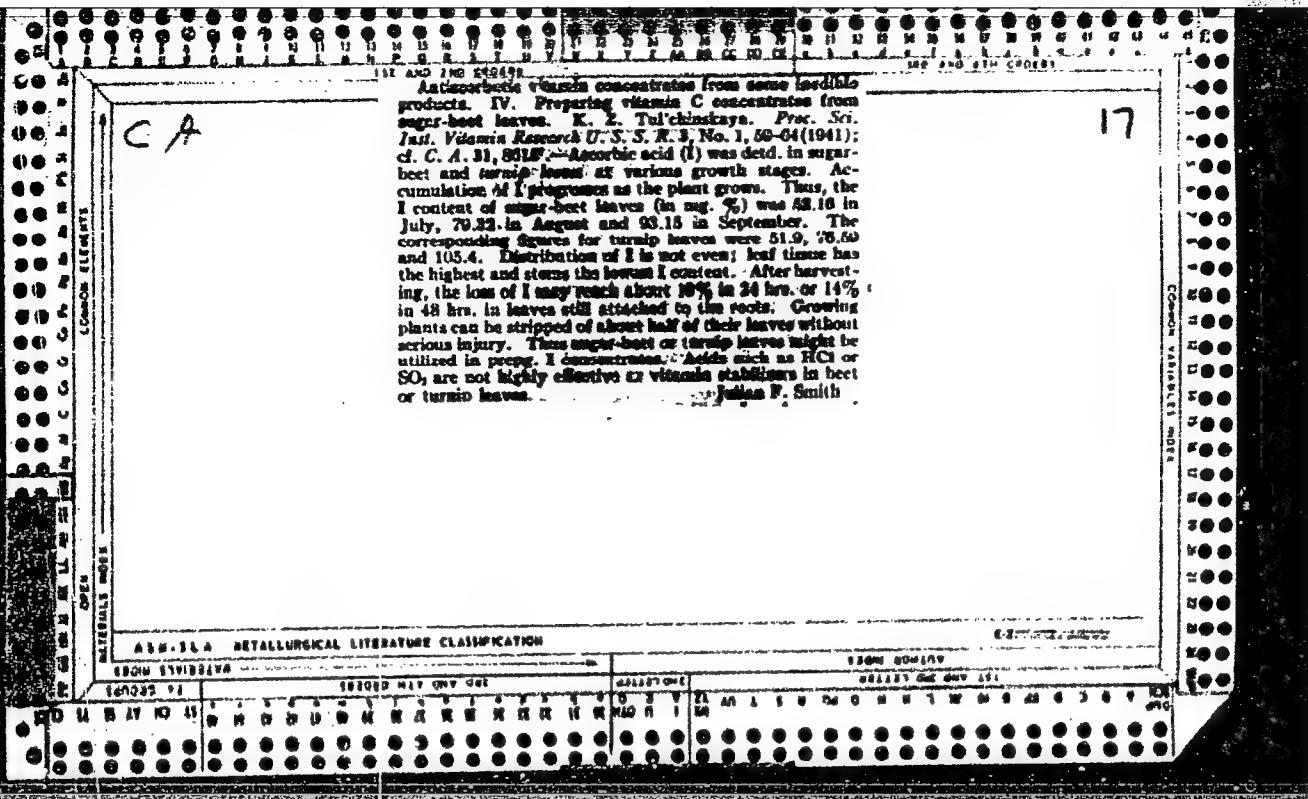


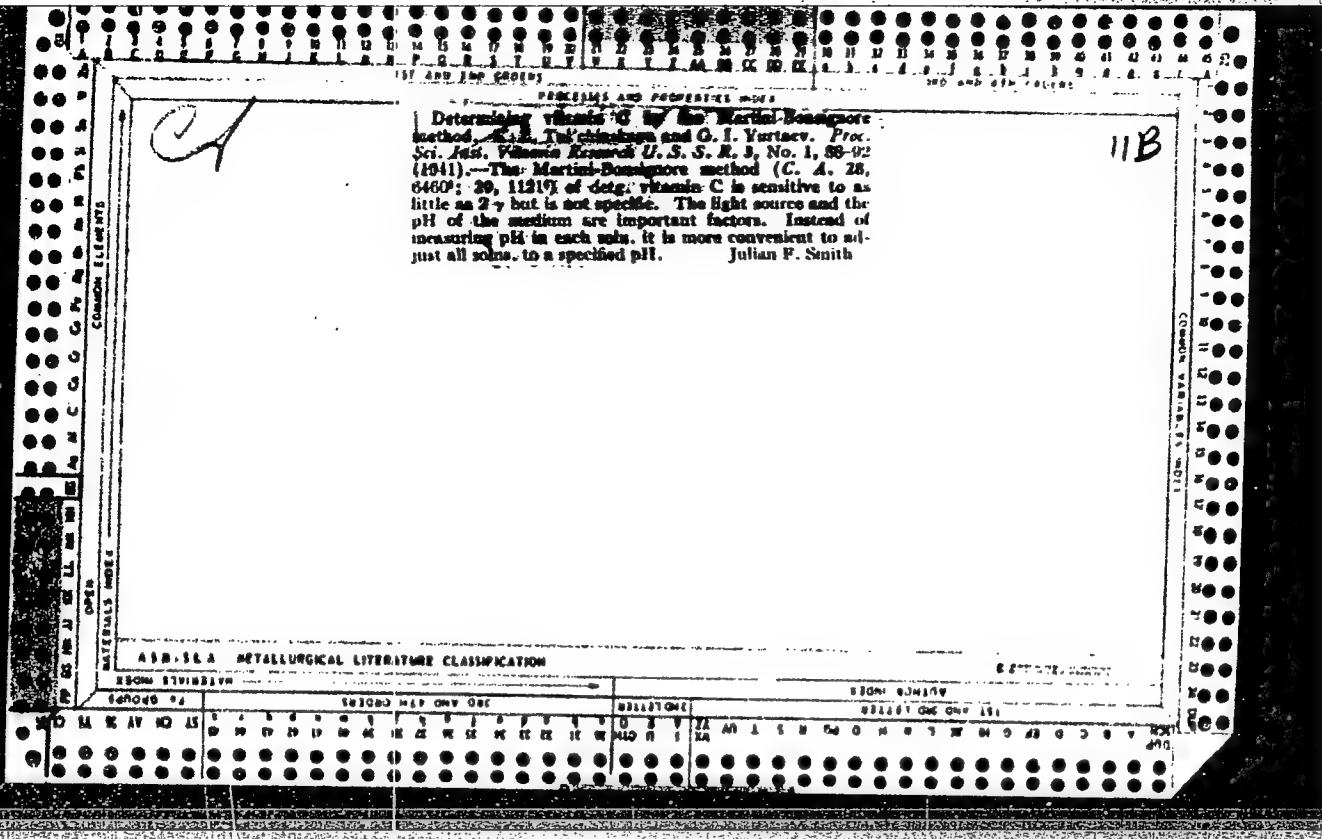
in the presence of 2,6-dichlorophenolindophenol and biol. tests on guinea pigs of exts. of peas growing in pots at 15-16° showed that the max. accumulation of vitamin C takes place within 60 hrs. of germination. According to the biol. tests, the reducing power of exts. of germinating peas depends chiefly, if not exclusively, on the content of ascorbic acid. Degerminated peas and germinating pea meal, with and without germs, showed increasing concn. of reducing substances in cultivation tests. The curative action of antiscorbutic pine-needle concentrate, S. N. Komarov. *Ibid.* 127-30 (in English 130).—The recovery of 52 cases of scurvy on application of pine-needle concentrate produced by the Leningrad Vitamin Works by the method of Shmidt and Tul'chinskaya (*C. A.* 30, 3481<sup>12</sup>) is reported. The cures were effected in 7-20 days with daily optimum doses of 20 biol. units with no harmful effect on the human organism even in cases of kidney disorder. Administering of vitamins in gynaecological afflictions. G. N. Yaropol'skaya. *Ibid.* 131-3 (in English 133).—Concentrate of vitamin C in doses of 20 biol. units daily for 14-15 days produced healing of erosion of the cervix uteri in 3 cases, and abs. cure in 12 cases of uterine hemorrhages, of which 6 were of the preclimacteric nature, 1 juvenile and 5 cases of hemorrhage caused by persistent follicle. The blood coagulability as well as the relative no. of thrombocytes was increased. Histological changes in the teeth of experimentally scorbutic guinea pigs. A. A. Mikhalkova. *Ibid.* 134-6 (in English 139); cf. *C. A.* 30, 3481<sup>13</sup>.—Histological exam. of the teeth of test animals by Beisikovskii Ag impregnation and Mallory and Heidenhain staining methods re-

<sup>1</sup> vealed certain changes in the dentine and peripheral layer of the pulp characteristic of the different stages of expel. scurvy. M. was able to establish the genesis of the pathol. dentine and to trace the differentiation processes involving odontoblastic elements. Comparative estimation of certain vitamin C diets used in biological tests of the vitamin C concentration. Z. B. Kusova. *Ibid.* 140-60 (in English 161).—Three groups of guinea pigs, each consisting of 3 males and 9 females, were fed on the 3 diets for 3 months and then crossed. The diets were: (a) oats, hay autoclaved at 120° for 2 hrs., rye bread (given on the 20th day of expt.), water, antiscorbutic concentrate (equal to 1.6 mg. ascorbic acid a day per guinea pig); (b) the same as a with carrots added; (c) oats, new hay, fresh vegetables, water. Diets a and b produced a marked delay in the wt. increase of the animals in the 1st month as compared with the diet c. The difference in the wt. increase of animals fed on a and b was most pronounced in the 1st month and definitely in favor of the diet b. Crossing of the 3 groups of animals resulted in a live litter for group 3, equal no. of still and live born for group 1, and greater no. of still-born than live-born youngs for the group 2. Except for the traces of an old hemorrhage in 1 animal of the 1st group and traces of recent hemorrhage in the group 2, the macroscopic exam. failed to reveal any scorbutic changes. Methods of obtaining an antiscorbutic preparation from the waste products of citric acid manufacture (from the mycelium of *Aspergillus niger*). S. N. Komarov. *Ibid.* 162-71 (in English 171-2).—Of the various methods of obtaining antiscorbutic prepns. from the mycelium of *Aspergillus niger*, a waste product in the manuf. of citric acid, the highest concns. of sterols resulted by extn. with Me<sub>2</sub>CO and alk. and the lowest with CCl<sub>4</sub>. The method of sapon. of undried mycelium with 5% NaOH for the sepa. of free sterols gave the best results. The content of sterols in the mycelia of various production cycles varies but slightly. It is considerably increased by increased adding. of N to the culture of the fungus (cf. Prilli, et al., *C. A.* 29, 3703<sup>14</sup>). Sterols obtained by











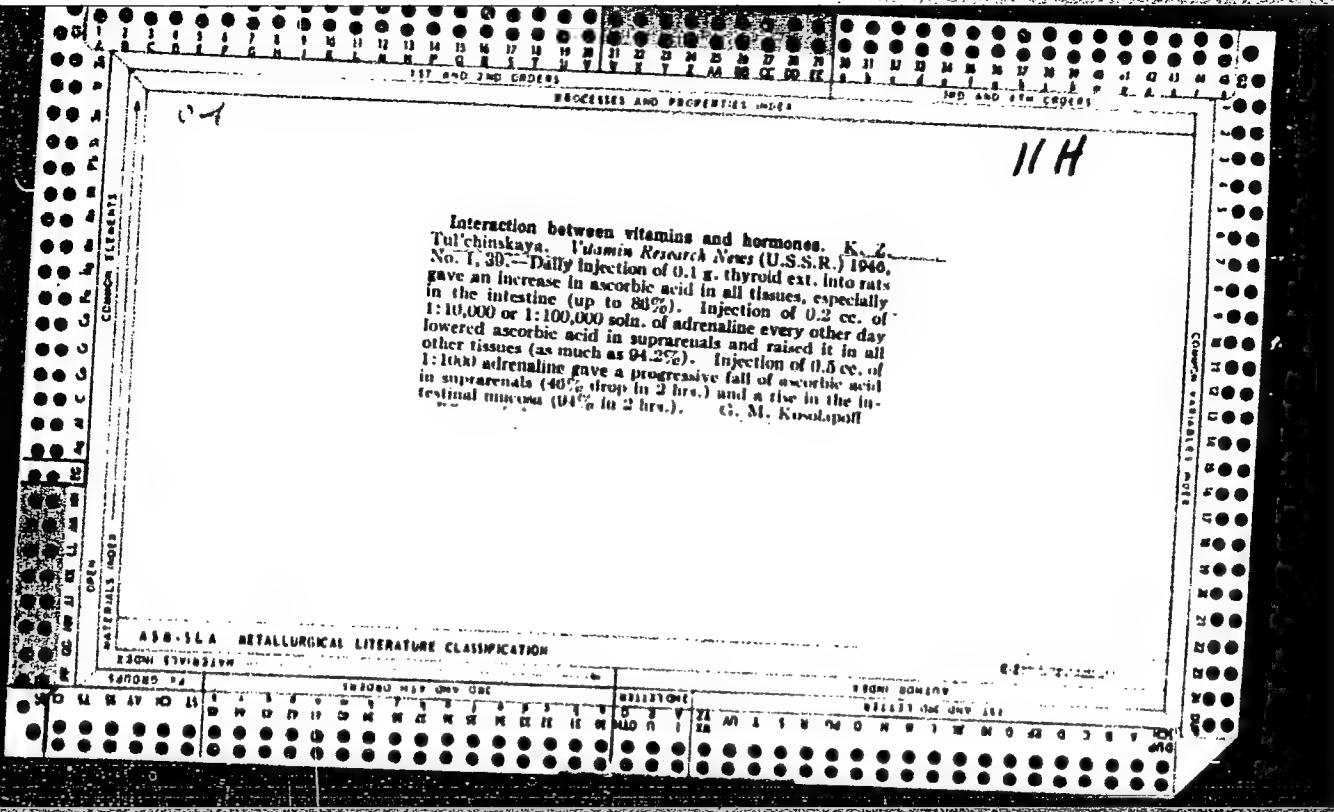
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114

New protein-vitamin preparations; their biological and chemical evaluation. K. Z. Tulshikar. *Vitamin Research News* (U.S.S.R.) 1946, No. 1, 30. Yeast, combined with vegetable greens and carrots, was transformed into prepuis, called protein-vitamin pastes (no further data). For max. preservation of ascorbic acid, the greens must be blanched in vegetable oil 5-10 min. at 110-20°. The pastes retain 35-50% ascorbic acid after 7-8 months. The pastes average 16.20-23.37 mg.% ascorbic acid, 0.2-0.3 mg.% aneurine, 0.10-14.21 mg.% carotene, 2.51-4.88% N, 10.0-30.2% carbohydrates, 0.48-0.86% P, 0.22-0.35% Ca and 32.1-67.0 mg.% Fe. The bakers' yeast in these prepuis, can replace casein in nutrition. (J. M. Kirovskii)

## AMSLA METALLURGICAL LITERATURE CLASSIFICATION



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CIA-RDP86-00513R001757410013-2"

TUL'CHINSKAYA, K.Z.; VADOVA, V.A.; YAKOVLEVA, Ye.V.

Study of the influence of increased doses of vitamins on the  
animal organism. Trudy VHIVI 6:192-203 '59. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.  
Biologicheskaya laboratoriya.  
(VITAMINS)

Tul'chinskaya, L.S.

GORBACHEVA, I.N.; VARNAKOVA, I.P.; MONICH, N.V.; POLYACHENKO, V.M.; ROMANOVA,  
A.S.; TUL'CHINSKAYA, L.S.; SHVARTSBERG, M.S.

Synthesis of substituted 1-benzyl-3,4-dihydroisoquinolines. Zhur.  
ob. khim. 27 no.8:2276-2282 Ag '57. (MLRA 10:9)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii.  
(Quinoline)

BEREZOVSKIY, V.M.; TUL'CHINSKAYA, L.S.

Rearrangement of triazenes. Part 2: Synthesis of aromatic o-aminoazo compounds not corresponding in structure to the components of initial triazenes. Zhur. ob. khim. 31 no. 11:3614-3621 N '61.  
(MIRA 14:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitamininnyy institut.  
(Triazene) (Azo compounds)

BEREZOVSKIY, V.M.; TUL'CHINSKAYA, L.S.; VOLIKOVA, N.G.

New synthesis of 5,6-dimethylbenzimidazole. Zhir.ob.khim. 30  
no.10:3434-3437 0 '61. (MIRA 14:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.  
(Benzimidazole)

BEREZOVSKIY, V.M.; TUL'CHINSKAYA, L.S.; YEREMENKO, T.V.; RODIONOVA, Ye.P.  
BARKAYA, M.A.

Series of alloxazine and isoalloxazine. Part 5: Catalysts of the  
reaction of secondary aromatic orthoaminoazo compounds with  
trihydroxypyrimidines. Zhur. ob. khim. 31 no. 11:3689-3694 N '61.  
(MIRA 14:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.  
(Alloxazine) (Isoalloxazine) (Catalysts)

BEREZOVSKIY, V.M.; TUL'CHINSKAYA, L.S.

Rearrangements of triazenes. Part 3: Rearrangement of aromatic compounds with a fixed triazene system. Zhur.ob.khim. 32 no.3:853-857 Mr '62. (MIRA 15:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.  
(Triazene)

BEREZOVSKIY, V.M.; TUL'CHINSKAYA, L.S.

Rearrangement of triazenes. Part I: Rearrangement of  
asymmetric triazenes in aminoazo compounds. Zhur. ob. khim.  
31 no.8:2774-2779 Ag '61. (MIRA 14:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.  
(Triazene) (Azo compounds)

BEREZOVSKIY, V.M.; TUL'CHINSKAYA, L.S.

Series of alloxazine and isalloxazine. Part 2: New synthesis  
of the compounds of the alloxazine series. Zhur.ob.khim.  
31 no.8:2779-2782 Ag '61. (MIRA 14:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.  
(Alloxazine)

TUL'CHINSKAYA, V. P., Prof.

TUL'CHINSKAYA, V. P.: (Professor, Kirgiz Agricultural Institute) and  
IVANOVA, V. I.: (Scientific Coworker, Kirgiz Veterinary Experimental Station).  
"Experiment at isolating and preparing coliparatyphous phages and using them in  
veterinary practice.

SO: BACTERIOPHAGIA IN VETERINARY PRACTICE, Proceedings of the Veterinary Section  
of the Academy, p. 57, Moscow, 1947. Trans. 191, by L. Lulich, Uncl.

TUL'CHINSKAYA, V. P.

Brucellosis of Farm Animals, and Measures for its Prevention, Kiev, 1950,  
36 pages, (Academy of Sciences Ukrainian SSR Council of Scientific and  
Technical Propaganda), 80 Kopeks, Copies -- 5,000.

SO: , Report, U-4724, Sept. 30, 1953, . (Veterinaryiya,  
No. 4, Apr. 1951, pp. 60-61, Moscow.)

TUL'CHINSKAYA, V.P., professor; DEMCHENKO, A.V.

Antibacterial properties of polyanol, a synthetic estrogenic substance.  
Mikrobiol.zhur. 13 no.2:107-110 '51. (MIRA 9:9)

1. Iz Odesskogo sel'skokhozyaystvennogo instituta.  
(POLYANOL) (BACTERICIDES)

TULCHINSKAYA, V. P.

USSR/Medicine - Brucellosis

May 52

"Comparative Data on Allergy Reaction of Sheep Affected With Brucellosis to Brucelllysate and Brucellohydrolysate VIEV", Prof V. P. Tulchinskaya, A. V. Demchenko

228T39  
"Veterinariya" No 5, pp 22-24

PA  
Submit charts showing the results of exptl injection of diseased and suspected sheep with Brucelllysate VIEV (extract of specific protein components of brucellae) and with a Brucellohydrolysate VIEV (an allergen which has been purified still further)

228T39

The results of the test were controversial. Authors recommend that more care should be exercised in the checking and standardization of various series of Brucellohydrolysate VIEV before their release to the veterinary profession.

228T39

TUL'CHINS'KA, V.P.; BILOSTOTS'KA, O.N.

Precipitation reaction in experimental brucellosis. Mikrobiol. zhur. 14 no. 2:  
40-46 '52.  
(says pp 41-46)  
(MLRA 6:11)  
(Brucellosis)  
(also -W-27098, 25 Jul 1953, p 3 (bibliog).

1. TUL'CHINSKAYA, V. P.; VOL'FKOVICH, S. I.
2. USSR ( 600)
4. Chemists
7. In memory of Professor Eduard Ksaver'yevich Lopatto (1893-1951).  
Zhur. prikl. khim. 25 no. 10, 1952
9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

TUL'CHINSKAYA, V. P., TKACHENKO, A. F., DENICHENKO, A. V.

Sheep - Diseases      Bang's Disease

Use of Dorogov's ASD preparations (antiseptic stimulants) in brucellosis of sheep.  
Veterinariia, 29, no. 2, 1952. P 17

9. Monthly List of Russian Accessions, Library of Congress, April 1952, Unclassified.  
also R. , u-4803, 13 Oct 1953 - Tr. 2

TUL'CHINS'KA, V.P.; DROBOT'KO, V.G., redaktor; MAKSIMYKO, O.I., re-  
daktor; BAKHINA, N.P., tekhnichnyy redaktor.

[Antibiotics] Antybiotyky. Kyiv, Vyd-vo Akademii nauk Ukrains'koi  
SSR, 1953. 49 p.  
(Antibiotics)

USSR/Medicine - Brucellosis; Immunity

Mar 53

"Dynamics of Immunobiological Reactions in Guinea Pigs Immunized with Live Antibrucellosis Vaccine Under Different Conditions of the Nervous System," V. P. Tul'chyn's'kaya, R. O. Faytelberg, I. V. Aplyak

Mikrobiol Zhur, Vol 15, No 1, pp 5-10

(CA 47 no. 15:7636 13)

Simultaneous injection of attenuated living antibrucellosis vaccine and caffeine effected in guinea pigs a more rapid appearance and subsequent rapid fall of the opsonophagocytic and macrophagocytic reactions as well as agglutinin and precipitin titers than the injection of vaccine alone. Since bromine has an inhibitory effect on the cortex of the brain, the attendant immunobiological reaction appears ~~relatively~~ and lasts longer. The opsonophagocytic and macrophagocytic reactions reflect more clearly the reactions of the organism of guinea pigs to the living attenuated antibrucellosis vaccine than either the agglutinin or precipitin reactions.

T1

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CIA-RDP86-00513R001757410013-2"

TUL'CHINSKAYA, V.P.; APLYAK, I.V.

Immunobiological reactions in laboratory animals inoculated with living brucellosis vaccine under various conditions of the nervous system. Zhur.mikrobiol.epid.i immun. no.5:56-61 My '55. (MIRA 8:7)

(BRUCELLOSIS, immunology,

vacc., eff. of bromides & caffeine on response to living  
vacc.)

(VACCINES AND VACCINATION,

brucellosis, eff. of bromides & caffeine on response  
to living vacc.)

(BROMIDES, effects,

on immun. responses to living brucellosis vacc.)

(CAFFEINE, effects,

on immun. responses to living brucellosis vacc.)

Thed.

Chair Microbiology, Odessa State U. (Tul'chinskaya)

and

Sci.Dir., Odessa agric. Inst, Min. Agric USSR (Tul'chinskaya)

USSR/Diseases of Farm Animals. Diseases Caused by Bacteria  
and Fungi.

Abs Jour: Ref Zhur-Biol., No 3, 1958, 12255.

Author : Tul'chinskaya V. P.

Inst :

Title : Prophylactic Vaccination of Farm Animals with Live  
Brucella Vaccine

Orig Pub: V pomoshch' s.-kh. i rybovodstvu. Vyp. 1, Odessa,  
1956, 23-24.

Abstract: Based on experimental application of the 19-strain  
vaccine the author recommends that only young animals  
of the age group from 4 to 6 months should be inocu-  
lated with this vaccine. For purposes of differentia-  
tion between vaccinated animals and those with natural

Card : 1/2

USSR/Diseases of Farm Animals. Diseases Caused by Bacteria  
and Fungi.

Abs Jour: Ref Zhur-Biol., No 3, 1958, 12255.

infections the use of the blood serum reaction (BSR)  
and the allergic eye test (Lokteva's allergen) is  
recommended.

Card : 2/2

USSR/Diseases of Farm Animals. Diseases Caused by  
Bacteria and Fungi.

R-1

Abs Jour: Ref Zhur-Biol., No 18, 1958, 83550

Author : Tul'chinskaya, V. P.

Institute: Odessa University

Title : Immunizing with an Avirulent Brucella Culture Combined  
with a Killed Vaccine Culture.

Orig Pub: Nauchn. yezhegodnik Odessk. un-t, Odessa, 1957,  
214-216

Abstract: Tests performed on 80 rabbits showed that when they  
were immunized against brucellosis with the  
strain No 19 vaccine combined with a Brucella  
melitensis anaculture, a larger agglutinin pro-  
duction and a higher phagocytal index were  
achieved than when only strain No 19 vaccine was  
used for immunization.--L. S. Goberman

TUL'CHINSKAYA, V.P. [Tul'chyns'ka, V.P.], prof.; YEDOTOV, M.I.;  
ISHCHENKO, N.I.; TURCHIN, I.P. [Turchyn, I.P.]

Methods of differentiating immunodiagnostic reactions in  
animals vaccinated against and in animals suffering from  
brucellosis. Na dopom.sil'.hrsp.ta vyr. no.5:15-18 '58.  
(MIRA 13:3)

1. Kafedra mikrobiologii Odesskogo gosuniversiteta. 2. Chlen-  
korrespondent AN USSR (for Tul'chinskaya).  
(Brucellosis in cattle) (Vaccination)

SHCHERBA, S.A., student biolog.fakul'teta; TUL'CHINSKAYA, V.P.  
[Tul'chyna'ka, V.P.], nauchnyy rukovoditel', prof.

Effect of antibiotics and chemicals on the germination and  
growth of wheat seed. Pratsi Od.un. Zbir.stud.rob. 149 no.5:  
167-168 '59. (MIRA 13:4)

1. Chlen-korrespondent AN USSR (for Tul'chinskaya). 2. Odesskiy  
gosudarstvennyy universitet.  
(WHEAT) (PLANTS, EFFECT OF ANTIBIOTICS ON)  
(PLANTS, EFFECT OF CHEMICALS ON)

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